

We claim:

1. An integrated compact , self contained surveillance unit, said unit comprising;

- 5 (a) housing means;
- (b) sensor means attached to said housing means;
- (c) means, attached to said housing, for determining the position of said unit;
- (d) communications means attached to said housing means;
- (e) computer means attached to said housing means, said computer means connected to said sensor means, said position determination means, and said communication means; and
- 10 (f) image output means attached to said housing means connected to said computer means.

2. The surveillance unit of claim 1, wherein said sensor means includes a sensor selected from the group including visible sensors, UV sensors, short wavelength infrared sensors and long wavelength infrared sensors.

15 3. The surveillance unit of claim 2, wherein said sensor means also includes uncooled focal plane array.

4. The surveillance unit of claim 1, wherein said position determination means includes GPS position determination means.

5. The surveillance unit of claim 4, further means for determining the motion of said unit.

20 6. The surveillance unit of claim 5, wherein said motion determination means is an accelerometer.

7. The surveillance unit of claim 6, further including means for determining direction.

8. The surveillance unit of claim 7, wherein said GPS position determination means is coupled to said accelerometer, said means for determining direction, said computer means and said communications means.

9. The surveillance unit of claim 4, wherein said position determination means also
5 includes GLONASS position determination means, said GLONASS position determination means coupled to both said computer means and said communication means.

10. The surveillance unit of claim 1, wherein said communication means is bi-directional.

11. The surveillance unit of claim 10, wherein said communication means includes multi-
10 mode patch antenna.

12. The surveillance unit of claim 10, wherein said communication means includes RF communication means.

13. The surveillance unit of claim 1, wherein said computer means includes digital signal processing means, field programmable gate array means, and memory means.

14. The surveillance unit of claim 1, further including temperature sensing means
15 connected to said computer ~~means~~ ^{means.}

15. The surveillance unit of claim 1, further including power supply means.

16. The surveillance unit of claim 15, wherein said power supply means is a battery.

17. The surveillance unit of claim 1, wherein said image output means is a removable
heads up display.
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18. The surveillance unit of claim 1, further including means for manipulating data by the user of said surveillance unit .

19. The surveillance unit of claim 1, wherein said information manipulating means is a touchpad.

19. The surveillance unit of claim 1, wherein said information manipulating means is a touchpad.